McGraw-Hill Economics
1221 Avenue of the Americas, 37th Floor
New York, New York 10020

May, 1985

18TH ANNUAL McGRAW-HILL SURVEY OF POLLUTION CONTROL EXPENDITURES, 1984-86

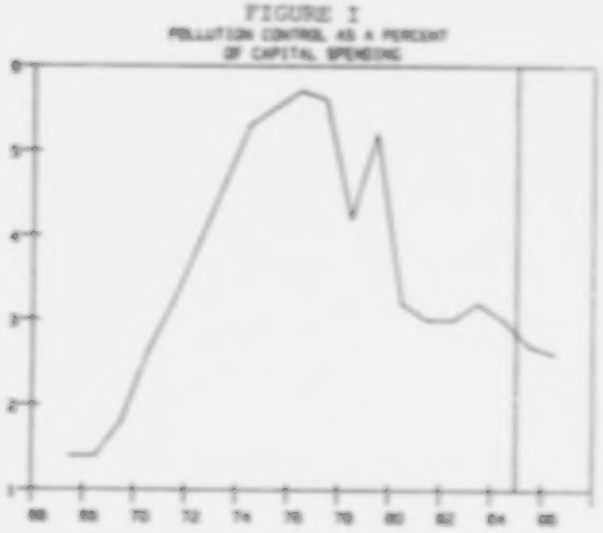
In 1985, American businesses expect to pare pollution control capital spending by 1.8% (Table I). But although down, anti-pollution spending is not on the outs--the expenditure figure is projected at a healthy $10.5 billion, one of the largest sums on record. And if the projection is realized, it would mark the first time anti-pollution capital spending has topped the $10 billion level in back-to-back years.

However, pollution expenditure growth is expected to be outdistanced by total capital spending growth. Projections show a 9.9% pick-up in business outlays for capital goods in 1985, according to McGraw-Hill's "Annual Spring Survey of Plant and Equipment Expenditures." That would reduce the slice of capital investment allocated to pollution to 2.7% (Table II) after holding steady at 3.0% in the previous two years. The projected 1985 drop would extend a downward trend dating back to 1976 (see Figure 1) when the share reached a high of 5.6%. In 1986, the erosion will probably continue as firms expect only 2.6% of total capital spending to go towards anti-pollution efforts.

These are some of the key findings of the "18th Annual McGraw-Hill Survey of Pollution Control Expenditures." The results, tabulated in March and April, were drawn from over 400 companies that responded to an overall capital

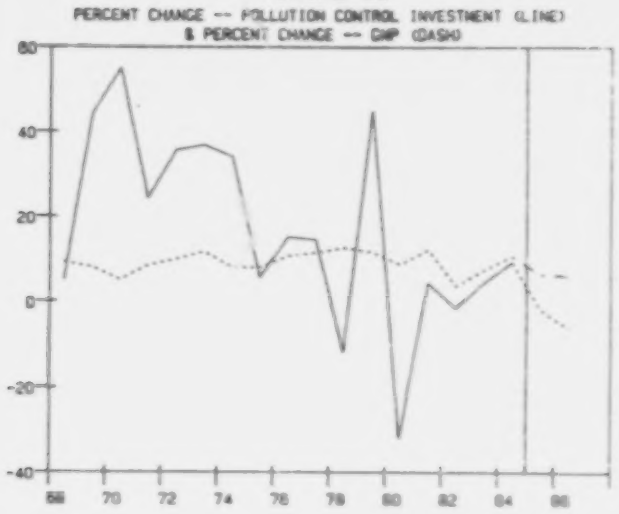
spending survey. Dollar figures represent spending by all businesses in the U.S., not just spending of survey respondents.

FIGURE I



As Figure 2 clearly illustrates, pollution control spending during the late 1960's and early 1970's far outpaced business activity. This reflects the number of anti-pollution legislative bills introduced during the Nixon administration. Since that time, however, combatting pollution has, with the exception of 1979, taken a backseat to economic growth. For example, while pollution control spending swelled 9% in 1984, it could not match the 11% acceleration in nominal gross national product. With 1985 growth forecast to hobble in at a relatively low 6.5% (including inflation), it is no wonder companies have decided to cut back on pollution control equipment. Actually, the strength in pollution control spending may even be a surprise, given that the current administration is opposed to tightening the reins of environmental legislation. (In five years of office, President Reagan has signed only one major bill to combat environmental abuse). In fact, in 1985, pollution control measures were relaxed as the Environmental Protection Agency reinforced its "bubble" policy. Under this plan, anti-pollution limits are calculated on a plant-wide basis (as if the entire plant were under a bubble) rather than on an individual smokestack basis.

FIGURE II



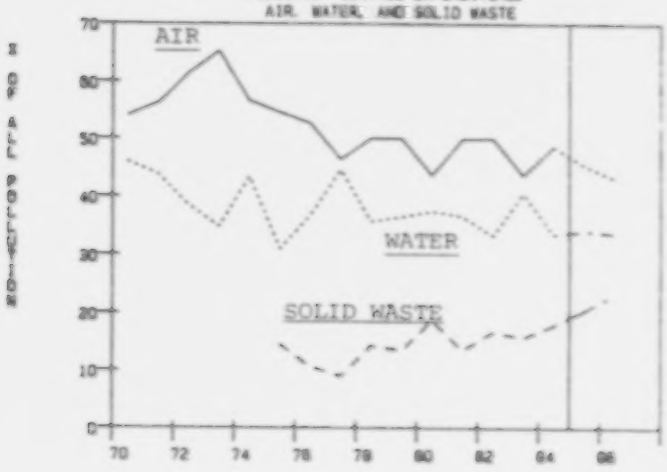
Nevertheless, in recent years, the solid waste issue has gathered more steam than its counterparts. In 1985, manufacturers anticipate solid waste will make up 20.4% of all capital expenditures used for pollution control. That compares to a 15.7% share in 1983 and 17.9% in 1984. In 1986, this number could inflate even more as companies expect the solid waste proportion to be 23%.

Government intervention has also played a role in raising private sector consciousness over solid waste. Due to events such as the Love Canal incident in 1976 and other chemical dumping problems, the Federal government enacted the "Superfund", a $1.6 billion fund established by Congress for cleanup of hazardous waste sites and spills.

Water pollution has not exactly taken a back seat to air and solid waste, but it has remained relatively flat. Companies have probably come up to the standards laid down by the Clean Water Act and are now just pumping in enough funds to maintain compliance. If the expected investment level of $3.5 billion in 1985 is accurate, water pollution expenditures will have shown virtually no change since 1980.

FIGURE III

SHARES OF POLLUTION CONTROL EXPENDITURES, AIR, WATER, AND SOLID WASTE



Air, Water and Solid Waste Spending

During its heyday of the 1970's, air pollution became a cause to rally around. But during the 1980's, this issue has gradually become passe. Now the buzzword seems to be solid waste. Figure 3 shows the share of pollution control used to combat air filth dwindling (the proportion is projected to drop to 45% from the 60% levels of the 1970's), while the share allotted for solid waste abatement is on the rise. (For the actual historical figures, see Table VII.)

But that's not to say that keeping the air clean is not a priority of many industries. For example, in 1984, all businesses forked out $5.2 billion to fight air pollution (Table III), the second highest figure ever recorded in survey history. And as of late, chemical manufacturers have been pressing the air pollution issue, largely because of the methyl isocyanate gas leak at a chemical plant in Bhopal, India. Chemical companies have asked Congress for stricter government enforcement over toxic air pollutants and are projecting a huge 31% increase in air protection in 1985.

Industry and Sector Spending

Expanding by 21%, the manufacturing industries plan a solid year of investing in pollution control equipment in 1985. Their rise will be overshadowed, however, by a 19% depression in pollution spending by nonmanufacturing firms. The nonmanufacturing sector wields more clout chiefly on the strength of electric utilities, which plan to reduce 1985 pollution control equipment spending by 34%. Accounting for a huge 21% chunk of total pollution control expenditures, the electric utilities sector spends more on pollution control than does any other major industry.

Coming in a close second to electric utilities is petroleum, which plans to increase anti-pollution investment 27% in 1985. However, in 1986, a dramatic reversal could be in the making. The survey reveals that oil companies plan to slash spending in the pollution control area by an eye-opening 55%. Chances are good this will pan out, as the oil industry has been faced with major shakeups recently. Some oil giants have announced plans to scale down their operations as a way to reduce costs. Ultimately, the cutbacks should have a depressing effect on pollution abatement capital outlays.

The only other industries topping the $1 billion level are mining and trade and services. Both industries plan to give less attention to pollution in 1985. Mining plans a small drop-off (-1.2%) after last year's 12.3% spurt, while trade and services will tumble (-4.8%) after a 215% hike in 1984. The table on the next page shows the progression of the electric utilities, petroleum, mining, and trade and services industries from 1980 to 1985.

The largest 1985 percent increases come from the textile (203%) and communications (140%) industries, but the total dollars involved are small.

Other increases packing more of a punch are stone, clay and glass (64%) and chemicals (28%).

On the downside, pollution spending decreases with the most impact are electric utilities (-34%), paper and pulp (-14%) and fabricated metals(-15%).

Pollution Control Capital Expenditures by the Four Largest Spenders
(Millions of Dollars)

	1980	1981	1982	1983	1984	1985
Mining	$224	$1,262	$722	$91	$1,213	$1,198
Trade and Services	828	83	418	452	1,424	1,356
Petroleum	822	1,325	1,267	1,365	1,385	1,757
Electric Utilities	2,795	3,195	3,105	3,876	3,259	2,167
Total of four industries	4,669	5,865	5,512	5,784	7,281	6,478
Four industries as % of all pollution spending	51.5%	62.0%	59.1%	59.3%	68.2%	61.8%

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NOTE: The other durables category listed in the tables includes lumber, furniture, jewelry, toys, and transportation equipment other than autos ans aerospace. Other nondurables includes apparel, tobacco, printing and publishing, and leather.

TABLE I

INVESTMENT FOR POLLUTION CONTROL*
(Millions of Dollars)

INDUSTRY	Actual 1984	Planned 1985	% Change 1984-85	Planned 1986
Iron & Steel	181	217	19.5	220
Nonferrous Metals	194	189	-2.3	78
Electrical Machinery	162	156	-3.3	146
Non-Electrical Machinery	379	464	22.5	534
Autos, Trucks & Parts	239	446	87.1	506
Aerospace	109	51	-53.6	54
Fabricated Metals	144	122	-14.9	77
Instruments	85	103	22.2	118
Stone, Clay & Glass	113	185	63.9	156
Other Durables	172	174	1.3	158
TOTAL DURABLES	1,775	2,107	18.7	2,048
Chemicals	776	995	28.3	1,184
Paper & Pulp	291	252	-13.5	277
Rubber & Plastic	133	130	-2.8	162
Petroleum	1,385	1,757	26.9	794
Food & Beverage	229	277	21.1	280
Textiles	23	69	202.3	60
Other Nondurables	0	0	NC	0
TOTAL NONDURABLES	2,837	3,480	22.7	2,758
ALL MANUFACTURING	4,613	5,587	21.1	4,805
Mining	1,213	1,198	-1.2	1,721
Railroads	55	63	13.3	61
Airlines	32	0	-100.0	0
Electric Utilities	3,259	2,167	-33.5	1,753
Gas Utilities	53	56	6.5	66
Communication & Other	20	48	139.5	80
Trade & Services	1,424	1,356	-4.8	1,332
ALL NONMANUFACTURING	6,057	4,888	-19	5,012
ALL BUSINESS	10,670	10,475	-1.8	9,818

*Note: Totals may not equal sum due to rounding.

TABLE II

POLLUTION CONTROL AS A
PERCENT OF CAPITAL SPENDING

INDUSTRY	Actual 1984	Planned 1985	Planned 1986
Iron & Steel	5.1	4.8	4.1
Nonferrous Metals	9.1	8.3	3.2
Electrical Machinery	1.1	1.1	1.0
Non-Electrical Machinery	2.5	2.5	2.6
Autos,Trucks & Parts	2.1	2.8	3.5
Aerospace	3.1	1.2	1.4
Fabricated Metals	4.2	3.0	1.8
Instruments	2.6	2.6	2.8
Stone,Clay & Glass	3.7	5.2	4.3
Other Durables	2.9	2.6	2.2
TOTAL DURABLES	2.7	2.7	2.5
Chemicals	5.1	5.9	6.8
Paper & Pulp	4.1	3.3	3.0
Rubber & Plastic	4.3	3.8	4.3
Petroleum	5.4	5.9	2.4
Food & Beverage	2.6	2.6	2.7
Textiles	1.2	3.7	3.4
Other Nondurables	0.0	0.0	0.0
TOTAL NONDURABLES	3.9	4.2	3.3
ALL MANUFACTURING	3.3	3.4	2.9
Mining	7.2	7.8	10.3
Railroads	0.8	0.8	0.7
Airlines	0.9	0.0	0.0
Electric Utilities	8.8	5.8	5.5
Gas Utilities	0.5	0.5	0.5
Communication & Other	0.1	0.1	0.2
Trade & Services	1.3	1.3	1.3
ALL NONMANUFACTURING	2.8	2.2	2.3
ALL BUSINESS	3.0	2.7	2.6

TABLE III
POLLUTION CONTROL EXPENDITURE: AIR, WATER, AND SOLID WASTE*
(Millions of Dollars)

INDUSTRY	ACTUAL 1984			PLANNED 1985			% CHANGE 1984-85			PLANNED 1986		
	Air	Water	Solid Waste	Air	Water	Solid Waste	Air	Water	Solid Waste	Air	Water	Solid Waste
Iron & Steel	101	80	0	104	112	1	3	40	66	110	109	1
Nonferrous Metals	131	22	41	123	22	45	-6	-3	9	36	12	31
Electrical Machinery	45	72	44	47	70	39	4	-2	-12	42	62	42
Non-Electrical Machinery	96	196	86	122	226	116	28	15	34	131	286	118
Autos, Trucks & Parts	84	78	76	151	112	184	79	43	141	193	113	199
Aerospace	28	28	52	4	5	42	-85	-84	-20	5	4	45
Fabricated Metals	61	65	18	59	61	2	-3	-6	-89	38	36	3
Instruments	29	26	29	35	33	35	19	25	23	40	38	40
Stone, Clay & Glass	62	31	20	101	64	20	64	106	1	99	31	26
Other Durables	80	42	50	72	49	53	-11	17	7	57	51	50
TOTAL DURABLES	718	641	417	818	753	537	14	17	29	751	743	554
Chemicals	304	274	198	399	330	266	31	21	35	461	435	288
Paper & Pulp	163	85	43	160	58	34	-2	-32	-21	161	53	62
Rubber & Plastic	50	53	30	62	34	34	23	-37	13	50	71	42
Petroleum	630	586	170	807	760	190	28	30	12	342	265	187
Food & Beverage	132	67	30	101	126	50	-24	89	66	97	118	65
Textiles	18	5	0	56	11	1	219	142	206	47	12	1
Other Nondurables	0	0	0	0	0	0	NC	NC	NC	0	0	0
TOTAL NONDURABLES	1,296	1,070	471	1,584	1,320	576	22	23	22	1,159	954	645
ALL MANUFACTURING	2,014	1,711	888	2,402	2,073	1,113	19	21	25	1,909	1,697	1,199
Mining	585	575	54	537	596	65	-8	4	22	717	846	158
Railroads	37	9	9	41	11	11	11	18	18	55	3	3
Airlines	0	0	32	0	0	0	-100	NC	-100	0	0	0
Electric Utilities	2,148	875	237	1,401	468	299	-35	-47	26	1,148	351	253
Gas Utilities	0	0	53	0	0	56	NC	NC	7	0	0	66
Communication & Other	10	6	4	21	21	6	116	235	52	50	17	13
Trade & Services	390	408	626	364	403	589	-7	-1	-6	355	387	590
ALL NONMANUFACTURING	3,170	1,873	1,014	2,364	1,498	1,026	-25	-20	1	2,325	1,606	1,082
ALL BUSINESS	5,184	3,584	1,902	4,766	3,571	2,139	-8	0	12	4,234	3,303	2,281

*Note: Total may not equal sum due to rounding.

TABLE IV
POLLUTION CONTROL EXPENDITURE: AIR, WATER, AND SOLID WASTE
(Percent of Capital Spending)

INDUSTRY	ACTUAL 1984			PLANNED 1985			PLANNED 1986		
	Air	Water	Solid Waste	Air	Water	Solid Waste	Air	Water	Solid Waste
Iron & Steel	2.9	2.3	0.0	2.3	2.5	0.0	2.1	2.1	0.0
Nonferrous Metals	6.1	1.0	1.9	5.4	0.9	2.0	1.4	0.5	1.3
Electrical Machinery	0.3	0.5	0.3	0.3	0.5	0.3	0.3	0.4	0.3
Non-Electrical Machinery	0.6	1.3	0.6	0.6	1.2	0.6	0.6	1.4	0.6
Autos, Trucks & Parts	0.8	0.7	0.7	0.9	0.7	1.1	1.3	0.8	1.4
Aerospace	0.8	0.8	1.5	0.1	0.1	1.0	0.1	0.1	1.2
Fabricated Metals	1.8	1.9	0.5	1.5	1.5	0.0	0.9	0.9	0.1
Instruments	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Stone, Clay & Glass	2.0	1.0	0.7	2.8	1.8	0.6	2.7	0.9	0.7
Other Durables	1.3	0.7	0.8	1.1	0.7	0.8	0.8	0.7	0.7
TOTAL DURABLES	1.1	1.0	0.6	1.0	1.0	0.7	0.9	0.9	0.7
Chemicals	2.0	1.8	1.3	2.4	1.9	1.6	2.7	2.5	1.7
Paper & Pulp	2.3	1.2	0.6	2.1	0.8	0.4	1.8	0.6	0.7
Rubber & Plastic	1.6	1.7	1.0	1.8	1.0	1.0	1.3	1.9	1.1
Petroleum	2.5	2.3	0.7	2.7	2.5	0.6	1.0	0.8	0.6
Food & Beverage	1.5	0.8	0.3	0.9	1.2	0.5	0.9	1.1	0.6
Textiles	0.9	0.2	0.0	3.0	0.6	0.1	2.7	0.7	0.0
Other Nondurables	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL NONDURABLES	1.8	1.5	0.7	1.9	1.6	0.7	1.4	1.1	0.8
ALL MANUFACTURING	1.5	1.2	0.6	1.5	1.3	0.7	1.2	1.0	0.7
Mining	3.5	3.4	0.3	3.5	3.9	0.4	4.3	5.1	0.9
Railroads	0.5	0.1	0.1	0.5	0.1	0.1	0.7	0.0	0.0
Airlines	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
Electric Utilities	5.8	2.4	0.6	3.7	1.2	0.8	3.6	1.1	0.8
Gas Utilities	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5
Communication & Other	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0
Trade & Services	0.4	0.4	0.6	0.3	0.4	0.6	0.3	0.4	0.6
ALL NONMANUFACTURING	1.5	0.9	0.5	1.0	0.7	0.5	1.1	0.7	0.5
ALL BUSINESS	1.5	1.0	0.5	1.2	0.9	0.6	1.1	0.9	0.6

TABLE V

TOTAL POLLUTION CONTROL EXPENDITURES--HISTORICAL*
(Millions of Dollars)

INDUSTRY	1967	1968	1969	1970	1971	1972	1973	1974	1975
Iron & Steel	$114	$105	$153	$167	$162	$132	$147	$183	$459
Nonferrous Metals	44	16	39	95	104	148	220	499	473
Electrical Machinery	31	95	52	80	70	79	129	87	129
Non-Electrical Machinery	30	61	54	132	107	123	166	210	112
Autos,Trucks & Parts	114	53	99	128	162	198	429	455	190
Aerospace	13	23	35	25	30	42	81	24	55
Fabricated Metals	26	46	47	51	85	104	130	108	211
Instruments	6	15	32	30	73	28	32	57	58
Stone,Clay & Glass	46	42	66	68	124	128	141	290	294
Other Durables	80	94	178	247	149	134	231	345	257
TOTAL DURABLES	499	556	739	990	1,057	1,093	1,697	2,249	2,233
Chemicals	92	109	135	165	268	368	425	452	634
Paper & Pulp	90	79	147	161	266	339	454	478	641
Rubber & Plastic	7	10	9	50	43	60	97	48	58
Petroleum	97	159	242	309	469	513	586	507	1,162
Food & Beverage	41	22	61	103	127	170	236	566	232
Textiles	8	11	14	18	30	28	36	57	76
Other Nondurables	61	28	49	104	20	110	81	59	35
TOTAL NONDURABLES	389	418	652	894	1,227	1,583	1,932	2,186	2,913
ALL MANUFACTURING	903	970	1,415	1,886	2,285	2,692	3,600	4,461	5,151
Mining	55	49	99	107	75	147	254	321	502
Railroads	NA	NA	NA	40	29	38	64	69	78
Airlines	NA	NA	NA	18	9	46	176	165	21
Electric Utilities	146	231	154	401	540	1,074	1,145	1,197	1,542
Gas Utilities	81	25	130	108	48	43	44	68	43
Communication & Other	0	0	0	0	0	182	330	873	244
Trade & Services	0	0	0	134	319	353	456	702	475
ALL NONMANUFACTURING	243	220	297	714	1,008	1,631	2,253	3,314	2,929
ALL BUSINESS	1,018	1,070	1,543	2,390	2,973	4,033	5,521	7,403	7,833

*Note: Total may not equal sum due to rounding.

TOTAL POLLUTION CONTROL EXPENDITURES--HISTORICAL*
(Millions of Dollars)
(Continued)

INDUSTRY	1976	1977	1978	1979	1980	1981	1982	1983
Iron & Steel	$638	$481	$450	$638	$526	$452	$314	$192
Nonferrous Metals	289	377	175	125	168	169	153	154
Electrical Machinery	173	125	200	219	195	137	242	114
Non-Electrical Machinery	222	419	289	224	194	369	202	419
Autos,Trucks & Parts	173	221	309	700	694	147	16	73
Aerospace	48	36	51	30	18	71	68	55
Fabricated Metals	246	142	153	123	113	69	52	107
Instruments	62	41	65	95	73	128	96	58
Stone,Clay & Glass	172	168	268	144	199	170	90	297
Other Durables	252	228	278	367	315	479	211	102
TOTAL DURABLES	2,282	2,326	2,209	2,425	2,270	2,093	1,439	1,645
Chemicals	907	772	597	677	884	878	912	635
Paper & Pulp	769	453	300	414	443	299	291	397
Rubber & Plastic	78	208	133	153	59	78	97	22
Petroleum	751	981	711	1,082	822	1,325	1,267	1,365
Food & Beverage	393	297	412	239	221	389	594	241
Textiles	123	71	103	125	81	81	69	57
Other Nondurables	64	173	127	156	210	74	457	419
TOTAL NONDURABLES	3,165	3,020	2,387	2,892	2,791	3,203	3,724	3,219
ALL MANUFACTURING	5,443	5,330	4,636	5,276	5,055	5,188	4,948	4,881
Mining	526	1,717	1,201	192	224	1,262	722	91
Railroads	47	84	83	99	262	119	229	112
Airlines	20	37	31	111	83	0	159	9
Electric Utilities	1,776	2,464	2,273	3,075	2,795	3,195	3,105	3,876
Gas Utilities	126	170	75	40	0	0	9	92
Communication & Other	291	411	245	251	60	129	155	173
Trade & Services	580	820	1,082	1,080	828	83	418	452
ALL NONMANUFACTURING	3,597	4,929	4,593	4,453	3,751	4,151	4,368	4,337
ALL BUSINESS	9,031	10,350	9,146	13,257	9,050	9,457	9,317	9,753

*Note: Total may not equal sum due to rounding.

TABLE VI

POLLUTION CONTROL EXPENDITURES AS A PERCENT OF CAPITAL SPENDING--HISTORICAL
(Percent)

INDUSTRY	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Iron & Steel	6.0%	5.2%	8.4%	10.3%	12.8%	12.3%	11.7%	9.3%	14.9%	20.4%
Nonferrous Metals	4.0	1.4	3.7	8.1	10.2	15.3	18.0	28.3	27.6	20.4
Electrical Machinery	1.0	3.0	1.6	2.3	2.3	2.8	3.7	2.3	4.2	4.8
Non-Electrical Machinery	1.0	2.1	1.5	3.5	3.4	3.8	4.2	4.1	2.3	4.1
Autos, Trucks & Parts	4.0	2.0	3.3	4.2	6.7	6.6	11.2	10.6	5.7	4.8
Aerospace	1.0	1.9	2.7	2.8	4.8	6.1	10.2	2.0	4.6	4.7
Fabricated Metals	2.0	3.4	3.5	4.2	7.1	7.3	7.2	5.6	10.8	11.2
Instruments	0.9	2.0	3.5	3.5	9.1	3.2	2.8	4.8	5.5	5.5
Stone, Clay & Glass	5.0	4.7	5.9	6.4	13.2	9.6	8.9	17.5	17.6	9.0
Other Durables	4.9	5.0	7.0	9.3	6.4	4.8	6.5	9.0	7.5	6.2
TOTAL DURABLES	2.8	3.1	3.7	5.0	6.3	6.0	7.5	8.4	8.8	8.3
Chemicals	3.0	3.9	4.5	4.9	8.2	10.9	10.2	7.3	8.9	12.3
Paper & Pulp	6.0	6.2	9.1	9.3	20.7	23.3	22.8	16.6	21.9	25.7
Rubber & Plastic	1.0	1.0	0.8	5.4	5.4	5.8	6.2	3.0	4.8	5.7
Petroleum	2.0	3.2	4.6	6.0	9.0	10.7	12.7	7.2	12.8	7.5
Food & Beverage	2.0	1.0	2.2	3.1	3.8	5.2	6.3	13.3	5.3	7.3
Textiles	1.0	1.7	1.6	2.3	3.3	2.6	3.5	5.4	8.9	12.6
Other Nondurables	4.0	1.8	2.8	5.5	1.0	5.0	3.1	2.2	1.3	2.2
TOTAL NONDURABLES	2.7	2.9	4.0	5.2	7.3	9.2	9.8	8.5	10.3	10.2
ALL MANUFACTURING	2.8	3.0	3.9	5.1	6.8	7.6	8.5	8.5	9.6	9.3
Mining	4.0	3.4	5.6	5.3	2.8	5.1	7.7	7.0	8.2	6.9
Railroads	NA	NA	NA	1.6	1.2	1.6	2.2	1.9	2.0	1.1
Airlines	NA	NA	NA	0.7	0.7	2.4	9.3	9.2	1.4	1.8
Electric Utilities	2.0	2.9	1.7	3.8	4.4	7.9	7.6	7.1	9.1	9.2
Gas Utilities	4.0	1.0	4.9	4.4	2.0	1.6	1.5	2.2	1.3	3.5
Communication & Other	0.0	0.0	0.0	0.0	0.0	1.2	2.0	4.8	1.4	1.5
Trade & Services	0.0	0.0	0.0	0.6	1.3	1.2	1.3	1.8	1.2	1.3
ALL NONMANUFACTURING	0.6	0.5	0.6	1.3	1.7	2.4	2.9	3.8	3.3	3.6
ALL BUSINESS	1.4	1.4	1.8	2.6	3.2	3.9	4.6	5.3	5.5	5.7

TABLE VI

POLLUTION CONTROL EXPENDITURES AS A PERCENT OF CAPITAL SPENDING--HISTORICAL

(Percent)

(Continued)

INDUSTRY	1977	1978	1979	1980	1981	1982	1983
Iron & Steel	16.7%	17.3%	19.9%	15.3%	13.0%	8.3%	5.9%
Nonferrous Metals	29.1	12.0	7.6	7.9	6.7	8.1	8.9
Electrical Machinery	2.7	3.4	2.9	2.0	1.3	2.2	1.0
Non-Electrical Machinery	6.6	3.9	2.2	1.7	2.7	1.5	3.1
Autos,Trucks & Parts	3.8	4.3	8.4	7.7	1.5	0.2	1.0
Aerospace	3.2	2.9	1.1	0.5	2.1	2.0	1.9
Fabricated Metals	5.8	5.2	3.8	3.4	1.9	1.7	3.8
Instruments	3.0	4.1	5.4	3.2	5.6	4.1	2.3
Stone,Clay & Glass	7.3	8.5	3.6	5.0	5.0	3.1	10.7
Other Durables	5.0	5.1	6.2	4.9	6.8	3.7	2.1
TOTAL DURABLES	7.1	5.6	5.0	4.1	3.5	2.6	3.1
Chemicals	10.5	7.7	6.9	7.6	6.7	7.2	4.9
Paper & Pulp	13.0	7.9	7.9	6.8	4.9	5.2	6.7
Rubber & Plastic	11.8	5.7	6.2	2.9	3.6	4.5	0.9
Petroleum	8.3	5.4	7.1	4.2	5.1	4.8	5.9
Food & Beverage	5.2	6.3	3.3	2.7	4.1	6.8	3.1
Textiles	6.0	7.9	8.8	5.3	4.9	4.7	3.7
Other Nondurables	5.1	3.0	2.6	2.8	0.9	5.5	4.5
TOTAL NONDURABLES	8.7	6.1	6.1	4.9	4.8	5.7	5.1
ALL MANUFACTURING	7.9	5.9	5.5	4.5	4.1	4.1	4.2
Mining	17.5	10.7	1.5	1.4	5.9	3.6	0.6
Railroads	1.8	1.6	1.5	3.7	1.9	4.3	2.3
Airlines	1.7	1.0	2.7	1.9	0.0	3.5	0.2
Electric Utilities	10.6	8.7	10.6	9.3	10.0	8.6	10.4
Gas Utilities	3.7	1.4	0.6	0.0	0.0	0.1	1.2
Communication & Other	1.9	1.0	0.9	0.2	0.4	0.5	0.6
Trade & Services	1.6	1.7	1.5	1.1	0.1	0.5	0.5
ALL NONMANUFACTURING	4.2	3.3	2.8	2.2	2.2	2.3	2.3
ALL BUSINESS	5.6	4.2	5.2	3.2	3.0	3.0	3.2

TABLE VII

HISTORICAL POLLUTION CONTROL EXPENDITURES -- AIR, WATER, SOLID WASTE*

(Millions of Dollars)

	1970		1971		1972		1973		1974	
INDUSTRY	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
Iron & Steel	$70	$98	$83	$78	$71	$61	$65	$81	$106	$77
Nonferrous Metals	77	19	77	26	123	25	187	33	344	155
Electrical Machinery	38	42	36	33	37	42	59	70	46	42
Non-Electrical Machinery	91	42	69	38	65	58	91	75	118	92
Autos,Trucks & Parts	85	43	102	61	117	81	237	192	253	202
Aerospace	15	10	22	8	24	18	49	32	16	8
Fabricated Metals	24	27	65	20	64	40	51	80	79	29
Instruments	22	9	30	42	10	18	21	12	29	29
Stone,Clay & Glass	41	27	94	30	80	48	94	48	182	108
Other Durables	106	141	68	82	98	36	156	75	222	123
TOTAL DURABLES	574	416	655	403	674	419	1,018	679	1,419	830
Chemicals	78	88	118	150	159	210	171	254	198	254
Paper & Pulp	62	99	126	140	182	157	295	159	282	196
Rubber & Plastic	31	18	20	23	30	30	70	27	21	27
Petroleum	139	170	250	219	340	173	374	212	352	155
Food & Beverage	47	56	54	74	82	88	123	112	140	425
Textiles	6	12	8	22	13	15	13	22	32	25
Other Nondurables	8	96	12	8	57	53	68	13	38	22
TOTAL NONDURABLES	361	533	589	639	860	723	1,124	808	1,080	1,106
ALL MANUFACTURING	925	962	1,243	1,042	1,559	1,134	2,118	1,482	2,519	1,942
Mining	69	38	35	40	98	49	195	59	202	119
Railroads	30	10	12	17	12	26	32	32	22	47
Airlines	15	3	9	0	43	4	176	0	155	11
Electric Utilities	254	148	319	221	857	218	799	347	725	472
Gas Utilities	74	34	27	22	24	19	23	20	40	28
Communication & Other	0	0	0	0	61	121	165	165	418	455
Trade & Services	67	67	196	123	206	147	386	70	429	273
ALL NONMANUFACTURING	439	275	593	415	1,088	544	1,631	621	1,918	1,395
ALL BUSINESS	1,287	1,103	1,672	1,301	2,482	1,551	3,601	1,920	4,190	3,213

*Note: Total may not equal sum due to rounding.

TABLE VII
HISTORICAL POLLUTION CONTROL EXPENDITURES -- AIR, WATER, SOLID WASTE*
(Millions of Dollars)
(Continued)

INDUSTRY	1975			1976			1977		
	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE
Iron & Steel	$203	$176	$80	$441	$194	$3	$242	$187	$52
Nonferrous Metals	370	43	60	232	30	27	250	119	8
Electrical Machinery	37	68	25	43	97	32	46	46	32
Non-Electrical Machinery	49	53	10	130	76	16	197	197	25
Autos,Trucks & Parts	67	63	60	108	43	22	76	76	70
Aerospace	26	20	8	21	17	9	16	15	6
Fabricated Metals	98	102	12	92	145	9	96	44	2
Instruments	25	27	6	15	34	14	15	22	4
Stone,Clay & Glass	164	70	60	132	33	8	87	51	30
Other Durables	195	48	14	142	85	24	132	59	37
TOTAL DURABLES	1,243	660	330	1,375	715	192	1,212	852	262
Chemicals	242	306	85	265	545	96	250	463	59
Paper & Pulp	398	234	9	248	404	117	185	216	52
Rubber & Plastic	31	16	11	51	26	1	139	60	9
Petroleum	653	327	182	421	291	40	461	461	59
Food & Beverage	101	105	26	135	167	92	114	149	34
Textiles	25	40	11	24	82	17	31	28	12
Other Nondurables	27	8	0	26	26	12	27	122	24
TOTAL NONDURABLES	1,499	1,075	339	1,210	1,582	372	1,250	1,527	243
ALL MANUFACTURING	2,737	1,717	698	2,575	2,282	585	2,429	2,362	540
Mining	294	135	73	359	107	61	383	1,276	59
Railroads	16	54	8	9	34	4	9	56	19
Airlines	9	11	2	16	3	1	19	13	4
Electric Utilities	1,017	407	119	1,197	425	154	1,650	721	93
Gas Utilities	20	10	13	72	47	7	87	83	0
Communication & Other	70	105	70	39	194	58	260	130	22
Trade & Services	237	119	119	357	134	89	410	205	205
ALL NONMANUFACTURING	1,598	888	444	2,198	999	400	2,347	2,230	352
ALL BUSINESS	4,272	2,421	1,139	4,753	3,327	951	4,805	4,621	924

*Note: Total may not equal sum due to rounding.

TABLE VII
HISTORICAL POLLUTION CONTROL EXPENDITURES -- AIR, WATER, SOLID WASTE*
(Millions of Dollars)
(Continued)

	1978			1979			1980		
INDUSTRY	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE
Iron & Steel	$294	$154	$3	$475	$164	$0	$327	$162	$38
Nonferrous Metals	140	19	16	59	36	30	98	30	40
Electrical Machinery	88	71	41	60	98	60	78	68	49
Non-Electrical Machinery	141	111	37	81	132	10	68	126	0
Autos, Trucks & Parts	295	7	7	233	233	233	352	171	171
Aerospace	30	12	9	8	13	8	7	7	4
Fabricated Metals	91	41	21	55	35	32	37	67	10
Instruments	40	21	5	35	33	26	36	21	16
Stone, Clay & Glass	136	73	60	80	44	20	115	44	10
Other Durables	131	55	93	118	118	130	174	84	58
TOTAL DURABLES	1,381	552	276	1,116	825	485	1,163	720	388
Chemicals	233	303	62	275	294	108	291	396	198
Paper & Pulp	148	148	4	189	147	79	202	182	59
Rubber & Plastic	100	12	21	84	37	32	10	33	16
Petroleum	303	316	92	594	427	61	372	431	20
Food & Beverage	144	177	92	94	102	44	49	90	82
Textiles	35	64	4	13	95	17	34	28	20
Other Nondurables	38	59	30	66	42	48	75	68	68
TOTAL NONDURABLES	1,017	1,096	274	1,328	1,185	379	1,082	1,253	456
ALL MANUFACTURING	2,436	1,650	550	2,398	2,014	863	2,247	1,910	899
Mining	539	269	393	64	64	64	144	16	64
Railroads	16	52	16	20	66	13	7	106	149
Airlines	19	9	3	66	29	17	30	30	22
Electric Utilities	1,254	941	78	1,886	1,044	145	1,503	1,022	270
Gas Utilities	27	38	11	7	33	0	0	0	0
Communication & Other	49	172	25	56	167	28	30	30	0
Trade & Services	573	255	255	504	288	288	226	301	301
ALL NONMANUFACTURING	2,227	1,670	696	2,385	1,590	477	1,705	1,364	682
ALL BUSINESS	4,573	3,266	1,307	6,629	4,844	1,785	3,959	3,394	1,697

*Note: Total may not equal sum due to rounding.

TABLE VII

HISTORICAL POLLUTION CONTROL EXPENDITURES -- AIR, WATER, SOLID WASTE*

(Millions of Dollars)

(Continued)

	1981			1982			1983		
	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE
Iron & Steel	$271	$160	$21	$166	$144	$4	$94	$88	$10
Nonferrous Metals	86	53	30	25	104	25	104	7	43
Electrical Machinery	42	85	11	55	143	44	46	46	23
Non-Electrical Machinery	192	164	14	94	94	13	108	203	108
Autos,Trucks & Parts	49	49	49	8	8	0	29	22	22
Aerospace	24	24	24	20	27	20	15	15	26
Fabricated Metals	11	36	22	12	31	9	34	65	8
Instruments	34	64	30	26	47	24	23	23	13
Stone,Clay & Glass	99	61	10	46	23	20	216	64	17
Other Durables	190	176	113	97	69	46	54	24	24
TOTAL DURABLES	957	837	299	498	720	221	743	584	318
Chemicals	236	459	184	418	329	165	181	259	194
Paper & Pulp	165	128	6	95	123	73	148	154	95
Rubber & Plastic	32	32	13	41	39	17	10	12	0
Petroleum	650	624	52	660	501	106	417	787	162
Food & Beverage	152	161	76	201	201	192	93	125	23
Textiles	32	37	13	34	25	10	25	23	9
Other Nondurables	25	25	25	307	75	75	251	84	84
TOTAL NONDURABLES	1,335	1,535	334	1,764	1,307	653	1,136	1,515	568
ALL MANUFACTURING	2,278	2,278	633	2,172	1,931	845	1,859	2,092	930
Mining	385	578	299	200	281	241	30	46	15
Railroads	50	44	25	37	155	37	10	93	10
Airlines	0	0	0	105	27	27	9	0	0
Electric Utilities	2,269	671	256	2,022	831	253	2,385	1,044	447
Gas Utilities	0	0	0	0	9	0	31	31	31
Communication & Other	32	97	0	62	62	31	115	29	29
Trade & Services	0	0	83	167	84	167	90	181	181
ALL NONMANUFACTURING	2,453	1,132	566	2,279	1,329	760	2,452	1,320	556
ALL BUSINESS	4,728	3,467	1,261	4,659	3,106	1,553	4,267	3,962	1,524

*Note: Total may not equal sum due to rounding.

TABLE VIII

HISTORICAL POLLUTION EXPENDITURES AS PERCENT OF CAPITAL INVESTMENT
AIR, WATER, SOLID WASTE

	1970		1971		1972		1973		1974	
INDUSTRY	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
Iron & Steel	4.3%	6.0%	6.6%	6.2%	6.6%	5.7%	5.2%	6.5%	5.4%	3.9%
Nonferrous Metals	6.5	1.6	7.6	2.6	12.7	2.6	15.3	2.7	19.5	8.8
Electrical Machinery	1.1	1.2	1.2	1.1	1.3	1.5	1.7	2.0	1.2	1.1
Non-Electrical Machinery	2.4	1.1	2.2	1.2	2.0	1.8	2.3	1.9	2.3	1.8
Autos,Trucks & Parts	2.8	1.4	4.2	2.5	3.9	2.7	6.2	5.0	5.9	4.7
Aerospace	1.7	1.1	3.5	1.3	3.5	2.6	6.2	4.0	1.3	0.7
Fabricated Metals	2.0	2.2	5.4	1.7	4.5	2.8	2.8	4.4	4.1	1.5
Instruments	2.5	1.0	3.8	5.3	1.1	2.1	1.8	1.0	2.4	2.4
Stone,Clay & Glass	3.9	2.5	10.0	3.2	6.0	3.6	5.9	3.0	11.0	6.5
Other Durables	4.0	5.3	2.9	3.5	3.5	1.3	4.4	2.1	5.8	3.2
TOTAL DURABLES	2.9	2.1	3.9	2.4	3.7	2.3	4.5	3.0	5.3	3.1
Chemicals	2.3	2.6	3.6	4.6	4.7	6.2	4.1	6.1	3.2	4.1
Paper & Pulp	3.6	5.7	9.8	10.9	12.5	10.8	14.8	8.0	9.8	6.8
Rubber & Plastic	3.4	2.0	2.5	2.9	2.9	2.9	4.5	1.7	1.3	1.7
Petroleum	2.7	3.3	4.8	4.2	7.1	3.6	8.1	4.6	5.0	2.2
Food & Beverage	1.4	1.7	1.6	2.2	2.5	2.7	3.3	3.0	3.3	10.0
Textiles	0.8	1.5	0.9	2.4	1.2	1.4	1.3	2.2	3.0	2.4
Other Nondurables	0.4	5.1	0.6	0.4	2.6	2.4	2.6	0.5	1.4	0.8
TOTAL NONDURABLES	2.1	3.1	3.5	3.8	5.0	4.2	5.7	4.1	4.2	4.3
ALL MANUFACTURING	2.5	2.6	3.7	3.1	4.4	3.2	5.0	3.5	4.8	3.7
Mining	3.4	1.9	1.3	1.5	3.4	1.7	5.9	1.8	4.4	2.6
Railroads	1.2	0.4	0.5	0.7	0.5	1.1	1.1	1.1	0.6	1.3
Airlines	0.6	0.1	0.7	0.0	2.2	0.2	9.3	0.0	8.6	0.6
Electric Utilities	2.4	1.4	2.6	1.8	6.3	1.6	5.3	2.3	4.3	2.8
Gas Utilities	3.0	1.4	1.1	0.9	0.9	0.7	0.8	0.7	1.3	0.9
Communication & Other	0.0	0.0	0.0	0.0	0.4	0.8	1.0	1.0	2.3	2.5
Trade & Services	0.3	0.3	0.8	0.5	0.7	0.5	1.1	0.2	1.1	0.7
ALL NONMANUFACTURING	0.8	0.5	1.0	0.7	1.6	0.8	2.1	0.8	2.2	1.6
ALL BUSINESS	1.4	1.2	1.8	1.4	2.4	1.5	3.0	1.6	3.0	2.3

TABLE VIII
HISTORICAL POLLUTION CONTROL EXPENDITURES AS PERCENT OF CAPITAL INVESTMENT
AIR, WATER, SOLID WASTE
(Continued)

	1975			1976			1977		
INDUSTRY	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE
Iron & Steel	6.6%	5.7%	2.6%	14.1%	6.2%	0.1%	8.4%	6.5%	1.8%
Nonferrous Metals	21.6	2.5	3.5	16.4	2.1	1.9	19.3	9.2	0.6
Electrical Machinery	1.2	2.2	0.8	1.2	2.7	0.9	1.0	1.0	0.7
Non-Electrical Machinery	1.0	1.1	0.2	2.4	1.4	0.3	3.1	3.1	0.4
Autos,Trucks & Parts	2.0	1.9	1.8	3.0	1.2	0.6	1.3	1.3	1.2
Aerospace	2.2	1.7	0.7	2.1	1.7	0.9	1.4	1.3	0.5
Fabricated Metals	5.0	5.2	0.6	4.2	6.6	0.4	3.9	1.8	0.1
Instruments	2.4	2.5	0.6	1.3	3.0	1.2	1.1	1.6	0.3
Stone,Clay & Glass	9.8	4.2	3.6	6.9	1.7	0.4	3.8	2.2	1.3
Other Durables	5.7	1.4	0.4	3.5	2.1	0.6	2.9	1.3	0.8
TOTAL DURABLES	4.9	2.6	1.3	5.0	2.6	0.7	3.7	2.6	0.8
Chemicals	3.4	4.3	1.2	3.6	7.4	1.3	3.4	6.3	0.8
Paper & Pulp	13.6	8.0	0.3	8.3	13.5	3.9	5.3	6.2	1.5
Rubber & Plastic	2.6	1.3	0.9	3.7	1.9	0.1	7.9	3.4	0.5
Petroleum	7.2	3.6	2.0	4.2	2.9	0.4	3.9	3.9	0.5
Food & Beverage	2.3	2.4	0.6	2.5	3.1	1.7	2.0	2.6	0.6
Textiles	2.9	4.7	1.3	2.5	8.4	1.7	2.6	2.4	1.0
Other Nondurables	1.0	0.3	0.0	0.9	0.9	0.4	0.8	3.6	0.7
TOTAL NONDURABLES	5.3	3.8	1.2	3.9	5.1	1.2	3.6	4.4	0.7
ALL MANUFACTURING	5.1	3.2	1.3	4.4	3.9	1.0	3.6	3.5	0.8
Mining	4.8	2.2	1.2	4.7	1.4	0.8	3.9	13.0	0.6
Railroads	0.4	1.4	0.2	0.2	0.8	0.1	0.2	1.2	0.4
Airlines	0.6	0.7	0.1	1.4	0.3	0.1	0.9	0.6	0.2
Electric Utilities	6.0	2.4	0.7	6.2	2.2	0.8	7.1	3.1	0.4
Gas Utilities	0.6	0.3	0.4	2.0	1.3	0.2	1.9	1.8	0.0
Communication & Other	0.4	0.6	0.4	0.2	1.0	0.3	1.2	0.6	0.1
Trade & Services	0.6	0.3	0.3	0.8	0.3	0.2	0.8	0.4	0.4
ALL NONMANUFACTURING	1.8	1.0	0.5	2.2	1.0	0.4	2.0	1.9	0.8
ALL BUSINESS	3.0	1.7	0.8	3.0	2.1	0.6	2.6	2.5	0.5

TABLE VIII

HISTORICAL POLLUTION CONTROL EXPENDITURES AS PERCENT OF CAPITAL INVESTMENT
AIR, WATER, SOLID WASTE
(Continued)

	1978			1979			1980		
INDUSTRY	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE
Iron & Steel	11.3%	5.9%	0.1%	14.8%	5.1%	0.0%	9.5%	4.7%	1.1%
Nonferrous Metals	9.6	1.3	1.1	3.6	2.2	1.8	4.6	1.4	1.9
Electrical Machinery	1.5	1.2	0.7	0.8	1.3	0.8	0.8	0.7	0.5
Non-Electrical Machinery	1.9	1.5	0.5	0.8	1.3	0.1	0.6	1.1	0.0
Autos,Trucks & Parts	4.1	0.1	0.1	2.8	2.8	2.8	3.9	1.9	1.9
Aerospace	1.7	0.7	0.5	0.3	0.5	0.3	0.2	0.2	0.1
Fabricated Metals	3.1	1.4	0.7	1.7	1.1	1.0	1.1	2.0	0.3
Instruments	2.5	1.3	0.3	2.0	1.9	1.5	1.6	0.9	0.7
Stone,Clay & Glass	4.3	2.3	1.9	2.0	1.1	0.5	2.9	1.1	1.0
Other Durables	2.4	1.0	1.7	2.0	2.0	2.2	2.7	1.3	0.9
TOTAL DURABLES	3.5	1.4	0.7	2.3	1.7	1.0	2.1	1.3	0.7
Chemicals	3.0	3.9	0.8	2.8	3.0	1.1	2.5	3.4	1.7
Paper & Pulp	3.9	3.9	0.1	3.6	2.8	1.5	3.1	2.8	0.9
Rubber & Plastic	4.3	0.5	0.9	3.4	1.5	1.3	1.6	1.6	0.8
Petroleum	2.3	2.4	0.7	3.9	2.8	0.4	2.2	2.2	0.1
Food & Beverage	2.2	2.7	1.4	1.3	1.4	0.6	1.1	1.1	1.0
Textiles	2.7	4.9	0.3	0.9	6.7	1.2	2.2	1.8	1.3
Other Nondurables	0.9	1.4	0.7	1.1	0.7	0.8	1.0	0.9	0.9
TOTAL NONDURABLES	2.6	2.8	0.7	2.8	2.5	0.8	1.9	2.2	0.8
ALL MANUFACTURING	3.1	2.1	0.7	2.5	2.1	0.9	2.0	1.7	0.8
Mining	4.8	2.4	3.5	0.5	0.5	0.5	0.9	0.1	0.4
Railroads	0.3	1.0	0.3	0.3	1.0	0.2	0.1	1.5	2.1
Airlines	0.6	0.3	0.1	1.6	0.7	0.4	0.7	0.7	0.5
Electric Utilities	4.8	3.6	0.3	6.5	3.6	0.5	5.0	3.4	0.9
Gas Utilities	0.5	0.7	0.2	0.1	0.5	0.0	0.0	0.0	0.0
Communication & Other	0.2	0.7	0.1	0.2	0.6	0.1	0.1	0.1	0.0
Trade & Services	0.9	0.4	0.4	0.7	0.4	0.4	0.3	0.4	0.4
ALL NONMANUFACTURING	1.6	1.2	0.5	1.5	1.0	0.3	1.0	0.8	0.4
ALL BUSINESS	2.1	1.5	0.6	2.6	1.9	0.7	1.4	1.2	0.6

TABLE VIII

HISTORICAL POLLUTION CONTROL EXPENDITURES AS PERCENT OF CAPITAL INVESTMENT
AIR, WATER, SOLID WASTE
(Continued)

	1981			1982			1983		
INDUSTRY	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE	AIR	WATER	SOLID WASTE
Iron & Steel	7.8%	4.6%	0.6%	4.4%	3.8%	0.1%	2.9%	2.7%	0.3%
Nonferrous Metals	3.4	2.1	1.2	1.3	5.5	1.3	6.0	0.4	2.5
Electrical Machinery	0.4	0.8	0.1	0.5	1.3	0.4	0.4	0.4	0.2
Non-Electrical Machinery	1.4	1.2	0.1	0.7	0.7	0.1	0.8	1.5	0.8
Autos,Trucks & Parts	0.5	0.5	0.5	0.1	0.1	0.0	0.4	0.3	0.3
Aerospace	0.7	0.7	0.7	0.6	0.8	0.6	0.5	0.5	0.9
Fabricated Metals	0.3	1.0	0.3	0.4	1.0	0.3	1.2	2.3	0.3
Instruments	1.5	2.8	1.3	1.1	2.0	1.0	0.9	0.9	0.5
Stone,Clay & Glass	2.9	1.8	0.3	1.6	0.8	0.7	7.8	2.3	0.6
Other Durables	2.7	2.5	1.6	1.7	1.2	0.8	1.1	0.5	0.5
TOTAL DURABLES	1.6	1.4	0.5	0.9	1.3	0.4	1.4	1.1	0.6
Chemicals	1.8	3.5	1.4	3.3	2.6	1.3	1.4	2.0	1.5
Paper & Pulp	2.7	2.1	0.1	1.7	2.2	1.3	2.5	2.6	1.6
Rubber & Plastic	1.5	1.5	0.6	1.9	1.8	0.8	0.4	0.5	0.0
Petroleum	2.5	2.4	0.2	2.5	1.9	0.4	1.8	3.4	0.7
Food & Beverage	1.6	1.7	0.8	2.3	2.3	2.2	1.2	1.6	0.3
Textiles	1.9	2.2	0.8	2.3	1.7	0.7	1.6	1.5	0.6
Other Nondurables	0.3	0.3	0.3	3.7	0.9	0.9	2.7	0.9	0.9
TOTAL NONDURABLES	2.0	2.3	0.5	2.7	2.0	1.0	1.8	2.4	0.9
ALL MANUFACTURING	1.8	1.8	0.5	1.8	1.6	0.7	1.6	1.8	0.8
Mining	1.8	2.7	1.4	1.0	1.4	1.2	0.2	0.3	0.1
Railroads	0.8	0.7	0.4	0.7	2.9	0.7	0.2	1.9	0.2
Airlines	0.0	0.0	0.0	2.3	0.6	0.6	0.2	0.0	0.0
Electric Utilities	7.1	2.1	0.8	5.6	2.3	0.7	6.4	2.8	1.2
Gas Utilities	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.4	0.4
Communication & Other	0.1	0.3	0.0	0.2	0.2	0.1	0.4	0.1	0.1
Trade & Services	0.0	0.0	0.1	0.2	0.1	0.2	0.1	0.2	0.2
ALL NONMANUFACTURING	1.3	0.6	0.3	1.2	0.7	0.4	1.3	0.7	0.3
ALL BUSINESS	1.5	1.1	0.4	1.5	1.0	0.5	1.4	1.3	0.5